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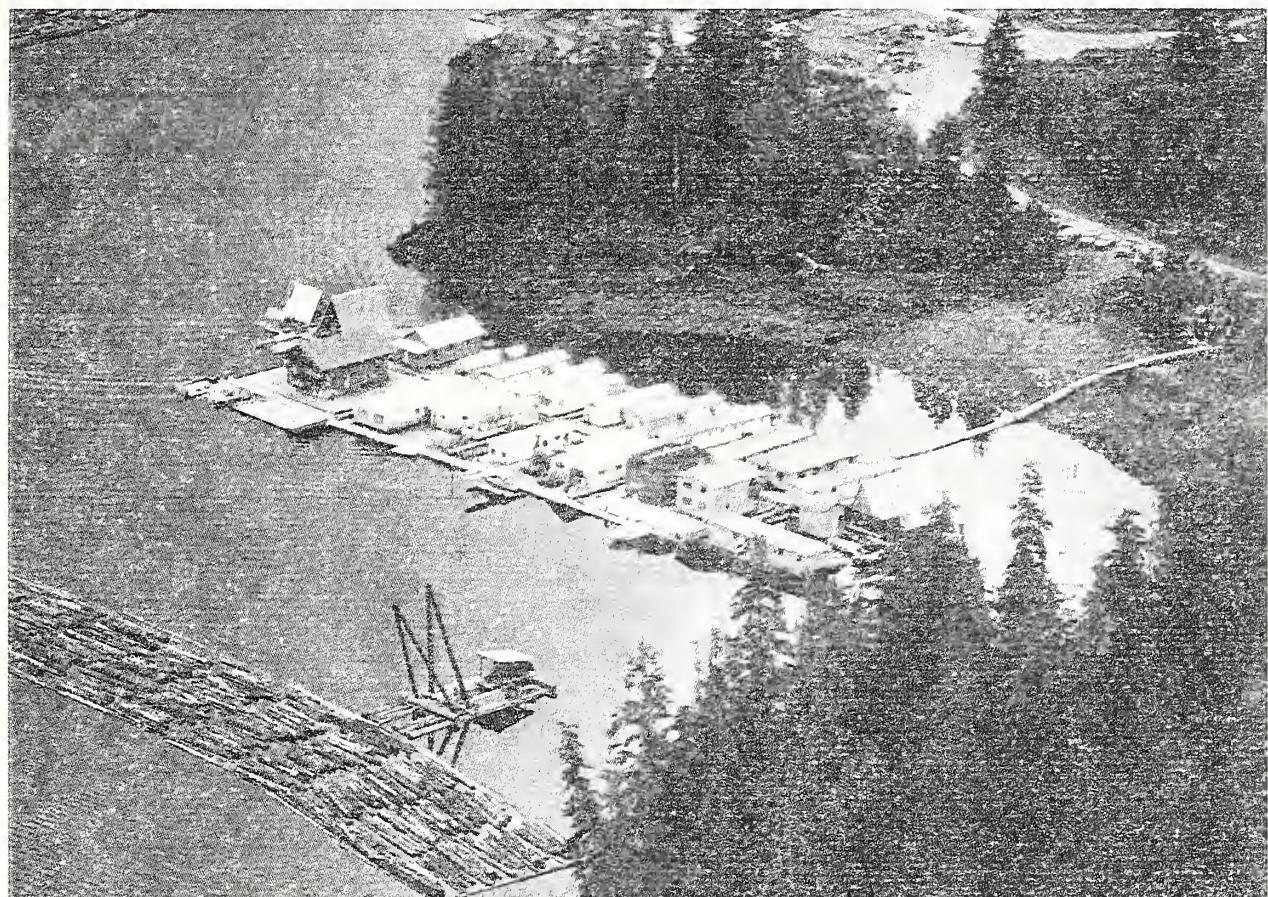
# Timber Supply and Demand 1999

Alaska National Interest Lands Conservation Act

Section 706(a) Report to Congress

USDA Forest Service, Alaska Region

Report Number 19



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Prepared By  
Forest Service  
Alaska Region

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# **Timber Supply and Demand 1999**

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# Preface

This is the nineteenth report prepared in accordance with Section 706(a) of the Alaska National Interest Lands Conservation Act (ANILCA), which directs the Secretary of Agriculture to monitor and report annually on timber supply and demand in Southeast Alaska. The following pages provide a summary of timber sale activity in the region and a review of the primary factors affecting timber markets in fiscal year 1999.

As required by Section 706(a) of ANILCA, this report was prepared in consultation with representatives from the State of Alaska, the affected Native Corporations, the Southeast Alaska timber industry, the Southeast Alaska Conservation Council, and the Southeast Alaska commercial fishing industry.

Copies of this report have been submitted to the U.S. Senate Committee on Energy and Natural Resources and the U.S. House of Representatives Committee on Natural Resources. Additional copies may be obtained by writing to:

Director of Ecosystem Planning  
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## Introduction

Section 706(a) of the Alaska National Interest Lands Conservation Act (ANILCA) directs the Secretary of Agriculture to monitor and report annually on timber supply and demand in southeastern Alaska. Accordingly, this report describes the status of the timber market in Southeast Alaska during the 1999 federal fiscal year (October 1, 1998 – September 30, 1999).

For purposes of this report, timber supply is defined as the sum of: 1) timber sales advertised and timber sales purchased competitively under the Forest Service independent sale program; 2) timber released to the Ketchikan Pulp Company (KPC) during the close-out of KPC's long-term timber contract; and 3) timber made available for purchase from State and privately owned lands. The sequence of activities needed to move federal timber sales through various stages of sale preparation is referred to as the "pipeline" and is referenced here to provide an indication of timber availability in future years.

The demand for timber in Southeast Alaska is determined by the number, capacity, and efficiency of wood processors in the region, the type and value of products manufactured, the technology employed in manufacturing those products, and delivered wood costs. Ultimately, the interaction of all these factors will result in the harvest and import of timber by processors and distributors in the region.

This report monitors the volume of timber purchased, harvested, consumed and exported each year, all of which are indicators of the demand for timber in Southeast Alaska. Some of these measures necessarily include timber from non-federal suppliers in the region and timber imported from foreign or domestic sources. Because the rate at which timber is purchased and harvested depends on the demand for wood products, changes in the wood products industry in Southeast Alaska and significant developments in key markets are also documented.

# Timber Supply

## Tongass Timber Offerings

Timber sale offerings from the Tongass National Forest totaled 277 million board feet (MMBF) in fiscal year (FY) 1999. Sixty-two timber sales were offered during the year, including 33 small sales (less than 1 MMBF). Roughly one-third of the sale volume was offered during the last week of the fiscal year. As of September 30, 1999, 47 MMBF of the volume offered in FY 1999 was awarded, no bids were received on 79.1 MMBF, and award was pending for the remaining 150.9 MMBF. Re-offered sales accounted for 58 percent of the FY 1999 program and are included in the figures reported above.

As reported in the FY 1998 Timber Supply and Demand Report, no bids were received for 161.7 MMBF of timber offered in FY 1998.<sup>1</sup> Some of these sales were reworked to make them more attractive to potential bidders and all were re-offered as part of the FY 1999 program. Of the timber re-offered, 78.7 MMBF again received no bids. Bids were received on the remaining 83.0 MMBF, although the award of 44.6 MMBF of the reoffered volume was pending financial review of the high bidder.

At 61.5 MMBF, the volume of timber sold from the Tongass in FY 1999 remained well below the decade average of 254 MMBF. The total volume sold included 14.5 MMBF of timber offered at the end of FY 1998 and awarded in FY 1999. A number factors contributed to the depressed sales volume, including poor market conditions, industry restructuring in the absence of the pulp mills and the long-term contracts, and changes in logging specifications required under the new Tongass Land Management Plan. The industry relied upon volume purchased in prior years to maintain mill operations.

The average advertised rate for the timber offered and sold in FY 1999 was \$12.17/MBF. The average high bid for these sales was \$16.32/MBF. The close link between the advertised rate and the actual bid rates reflects the accuracy of the new appraisal system adopted by the Region on April 1, 1999.<sup>2</sup> The heart of the new Transaction Evidence Appraisal (TEA) system is a database of actual stumpage values recorded for timber sales in the Region. Species-specific stumpage values are derived from this historical database and then adjusted for each sale to account for current market conditions, and sale-specific timber quality and harvest costs. A key advantage to the new system is that TEA calculates projected stumpage values (i.e. advertised rates) on the basis of observed stumpage values. Prior to implementation of TEA, the Region used Residual Value Appraisal System in which stumpage values were calculated indirectly, by subtracting all sale-related costs from estimated end-product selling values.

In deciding whether to purchase a sale and how much to bid for the stumpage, a potential buyer must consider the costs of logging the timber and bringing the wood to the manufacturing facility. These costs vary widely from sale to sale depending on the logging system prescribed, the layout of the sale units and the amount of road construction needed to

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<sup>1</sup> The figure reported in the 1998 Report has been adjusted upward slightly to include a few very small timber sales that were offered but not sold.

<sup>2</sup> FSH 2409.22 Chapter 600, FSH 2409.18 Chapter 40

access the timber. On average, the sales that sold in FY 1999 had lower logging/road costs than the sales that received no bids.<sup>3</sup> The timber sold in FY 1999 had a weighted average logging/road cost of \$306/MBF. This compares with the average cost of \$357/MBF for the timber that did not sell. The species ratio, timber quality, and volume per unit of road constructed are other sale attributes that influence bidder behavior.

Tables A-1a and A-1b provide more detailed economic information about the sales offered in FY 1999.

### **Volume Under Contract**

Purchasers of National Forest timber started the fiscal year with approximately 395.3 MMBF of timber under contract. Of this, 229.2 MMBF was under contract to independent purchasers and 166.1 MMBF was associated with the Ketchikan Pulp Company (KPC) long-term contract (Tables A-13 and A-14). By the end of the fiscal year, the volume of timber under contract to independent mills had increased slightly to 232.7 MMBF while KPC's volume under contract dropped to 79.9 MMBF.

The cost of harvesting the timber under contract in FY 1999 remain virtually unchanged from the costs estimated for FY 1998. At the start of FY 1999, volume under contract to independent purchasers had a weighted average logging/road cost of \$328/MBF (\$248/MBF logging + \$80/MBF specified roads). This is roughly \$22/MBF higher than the estimated costs for the timber purchased in FY 1999. The average bid value for these sales included an additional \$50/MBF in net stumpage payments. Continued weakness in the timber market may trigger emergency rate re-determinations and reduce overall cost by some fraction of the bid value.

The situation is a bit different for the timber remaining under the KPC long-term contract.<sup>4</sup> Under a February 1997 settlement agreement, KPC was allowed to complete the harvest of an estimated 320 MMBF of timber previously released to the company. As part of the agreement, KPC paid the federal government approximately \$7.5 million in stumpage (roughly \$20/MBF). The federal government agreed to reimburse KPC for the costs of building the roads to access this timber. In this case, the net cost to KPC of harvesting the remaining volume under contract can be approximated by the average logging cost plus the stumpage payment collected as part of the settlement agreement. For the offerings remaining, this equates to \$229/MBF.

### **Status of the Tongass Timber Pipeline – Timber Supply Outlook**

At any point in time, varying amounts of timber from the Tongass National Forest are in different stages of readiness for harvest. Each stage is referred to as a "gate", and is defined by specific activities to be completed by the Forest Service before the associated timber volume can pass on to the next gate. The sequence of gates is commonly referred to as the timber "pipeline" which serves as a link between the standing timber inventory and the sales that are available for harvest. In general, three to five years are needed to move a timber sale through the pipeline. However, administrative appeals can prolong sale preparation time and force adjustments to out-year sale planning.

Given the extended period of time involved in planning and preparing a timber sale, the Forest Service must closely monitor the volume of timber at different stages in the pipeline to ensure

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<sup>3</sup> Sales less than 500 MBF in size are not included in this analysis.

<sup>4</sup> Gateway Forest Products was incorporated March 22, 1999 and acquired KPC's wood production facilities in Ketchikan on November 5, 1999. However, KPC is solely responsible for the logging and clean-up associated with all timber included in the 1997 settlement agreement.

that the volume delayed in one gate can be offset by volume supplied from another. At the end of FY 1999, the status of the timber pipeline was as shown in Table 1. Note that the total timber sale program involves a much greater volume of timber than the amount offered for sale each year. For example, at the end of FY 1999, the environmental analysis required under the National Environmental Policy Act (NEPA) had been completed for approximately 649.6 MMBF of timber.<sup>5</sup> This equates to nearly three times the annual offer level in recent years. However, only a fraction of this "NEPA-Cleared" timber is readily available to manufacturers.

At the end of FY 1999, sale preparation and layout still needed to be completed before 54.1 MMBF of the "NEPA-cleared" timber sales could be advertised. An additional 50.2 MMBF was under administrative appeal and not available to purchasers. Finally, of the 277 MMBF of timber offered in FY 1999, no bids were received on 73.3 MMBF, 106.3 MMBF of sales awaited bid openings, and award of the remaining 44.6 MMBF was pending a financial review of the purchaser. The bulk of the timber most readily available to the industry was offered and awarded in prior years and is reported as volume under contract (312.6 MMBF).

**TABLE 1. Tongass Timber Pipeline September 30, 1999**

	KPC	Independent	Total
<b>Notice of Intent Issued:</b>		399.8	399.8
<b>Decision Notice Issued:</b>			
Progressing Normally	54.1	54.1	
Under Administrative Appeal (Sea Level EIS)	50.2	50.2	
<b>SUBTOTAL</b>	104.3	104.3	
<b>Offered FY 1999 and:</b>			
Award Pending	44.6	44.6	
Bid Opening Pending	106.3	106.3	
No Bid, "Shelf Volume"	73.3	73.3	
<b>SUBTOTAL</b>	224.2	224.2	
<b>Other "Shelf Volume":</b>	8.5	8.5	
<b>Volume Under Contract:</b>			
Offered and Awarded FY 99	47.0	47.0	
Offered Prior to FY 99	79.9	185.7	265.6
<b>SUBTOTAL</b>	79.9	232.7	312.6
<b>Total Pipeline Volume</b>	79.9	969.5	1,049.4

NEPA-Cleared

## Other Sources of Timber

### Southeast Alaska Native Corporations

The 1971 Alaska Native Claims Settlement Act established thirteen Native Corporations in Southeast Alaska and entitled them to select some 600,000 acres of land from the Tongass National Forest. Approximately 10 percent of the non-reserved standing timber volume in the region was conveyed to these corporations. Over the last two decades, an estimated 6.5 billion board feet of timber have been harvested from private lands in Southeast Alaska. To-date, the Alaska Native Corporations have not invested in wood processing facilities in Alaska and most export-quality logs are shipped to foreign destinations.

<sup>5</sup> From Table 1, 649.6 MMBF = 104.3 MMBF Decision Notice Issued + 224.2 MMBF Offered/Pending + 8.5 MMBF Shelf Volume + 312.6 MMBF Volume Under Contract.

Following the closure of the Ketchikan pulp mill in 1997, Sealaska, the Southeast Regional Native Corporation, began discussions with Louisiana Pacific about the possibility of forming a joint venture to manufacture veneer and other wood products. The old pulp mill site could potentially house a sawmill/veneer mill complex designed to manufacture both public and private timber supplies. Although the joint venture idea was abandoned in the fall of 1998, Sealaska is reportedly continuing to investigate wood products and markets that could serve as viable alternatives for some of the corporation's log export trade.<sup>6</sup>

### **State Timberlands**

The Department of Natural Resources Division of Forestry manages the state's commercial forestlands, including approximately 65,500 acres in Southeast Alaska. The Division encourages local manufacturing of State timber and makes commercial timber offerings through the following programs:

- Competitive sales offered by sealed bid or oral auction (AS 38.05.120)
- Negotiated sales of up to 500 MBF for one year (AS 38.05.115)
- Negotiated sales in areas with high unemployment, under-utilized mill capacity, and under-utilized allowable cut (AS 38.05.118)
- Negotiated sales of up to 10 MMBF per year for up to 10 years specifically for "high value-added" processing (AS 38.05.123)

In 1996, the Governor introduced legislation to establish a "high value-added" timber sale program for the State. As set forth in AS 38.05.123, this program is intended to provide a more secure timber supply for local mills and to increase the number of Alaskan jobs supported by the State's timber resources. It allows the Division of Forestry to negotiate larger timber sales with stronger requirements for in-state processing. By regulation, timber sold under this program cannot be harvested until the associated processing facilities are operational.

During FY1999, the Division sold fifteen timber sales in Southeast Alaska. Most of these were small salvage sales, less than ten acres and 500 MBF in size. The Division of Forestry breaks Southeast Alaska into three Areas. The total sale volume proposed for the Ketchikan Area in (State) FY 2000 (7/1/99-6/30/00) is 7.1 MMBF. The Juneau Area is scheduled for 1.6 MMBF in sale volume and 3.9 MMBF of sales are planned for the Haines State Forest. Unless market conditions improve, the actual level of timber sale offerings is likely to be much lower. A notable exception is the increasing demand for small sales (less than 10 acres in size) from operators located on Prince of Wales Island.

### **Log and Chip Imports**

In recent years, only minor log import activity has occurred in Southeast, in part due to higher log prices. Also, in response to growing land use conflicts, the need for watershed protection, and increased resistance to clearcutting, the Canadian government has prohibited round-log export and encouraged the manufacture and sale of finished wood products. Absent the pulp mills, currently there is no local market for the type of low-end logs that found their way into Southeast's timber market in prior years and log imports are expected to be minimal in future years.

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<sup>6</sup> "Sealaska and LP will not form their joint venture", Island News, September 14, 1998, pg. 1.

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# Timber Demand

The following pages provide information about the volume of timber harvested, consumed, and exported from within Southeast Alaska, all of which are indicators of timber demand. Some of these measures necessarily include timber from State and private forestlands in the region and timber imported from foreign or domestic sources. In addition, the rate at which timber is purchased and harvested ultimately depends on the demand for wood products.<sup>7</sup> Thus, significant changes in the wood products industry in Southeast Alaska and trends in key wood product markets are also reported.

This report is intended to monitor timber markets and makes no attempt to speculate about what may have transpired if the numerous factors influencing timber and wood product demand had somehow been altered. As a result, it is technically a report on the quantity of timber demanded in FY 1999, given the cost of alternative supplies and the prevailing market conditions.

## **Timber Harvest Activity**

### **Tongass National Forest**

Timber sale operators harvested 132.8 MMBF of sawtimber and 12.9 MMBF of utility-grade logs for a total harvest volume of 145.7 MMBF in FY 1999. The amount of timber harvested under the KPC long-term contract (86.1 MMBF) increased eight percent from FY 1998 harvest levels. Timber harvest activity under the independent sale program (59.6 MMBF) increased by fifty percent relative to last fiscal year.

### **Southeast Alaska Native Corporations**

As shown in Table A-7, a large percentage of the timber harvest activity in Southeast Alaska has occurred on the lands conveyed to the Southeast Alaska Native Corporations. Log export statistics from the U.S. Department of Commerce and (when applicable) production data supplied by the pulp companies were used to generate the annual harvest estimates reported here. These figures indicate that the volume of timber harvested by the Native Corporations peaked at 530 MMBF in 1989 and have since fallen to an annual estimated harvest of 200-250 MMBF.

### **State of Alaska**

A total of 7.3 MMBF of sawlogs and 0.1 MMBF of utility logs were harvested from State timberlands in FY 1999. Several small timber businesses depend on the State's timber program for their wood supply, although it accounts for only 2 to 3 percent of annual timber harvest in the region. The State's timber supply has become increasingly important to local economies, as the Knowles administration has emphasized and encouraged local processing of the timber sold.

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<sup>7</sup> The demand for wood products from a particular supplier depends on the competitive position of that supplier. Other things being equal, relatively high raw material costs put Alaska's manufacturers at a competitive disadvantage.

## National Forest Log Exports

Logs harvested from National Forests in Alaska cannot be exported without the prior approval of the Regional Forester (36 CFR 223.201). Historically, western red cedar and Alaska yellow cedar logs were not consumed in local mills and export permits for these relatively minor species were routinely approved. However, in recent years, buyers have expressed interest in keeping some western red cedar in the region for local processing. Accordingly, Section 347 of the FY 1998 Department of Interior and Related Agencies Appropriation Act directed the Forest Service to allow only what is surplus to the needs of local processors to leave the State. This direction was reiterated in Section 350 of the FY 1999 Appropriations Act. Both Acts require that a certain amount of the "surplus" western red cedar must be made available to domestic processors within the contiguous 48 states before it is offered to foreign markets. In addition, all Alaska yellow cedar is considered available for foreign export at the discretion of the timber sale purchaser.

In FY 1998, the Regional Export Procedures were circulated for public comment and published in the Federal Register. The procedures were modified slightly in FY 1999 and codify Regional policy regarding the export of western red cedar, Alaska yellow cedar, and utility logs originating from National Forest System Lands in Alaska. Simply put, under the procedures, utility and western red cedar logs are initially to be appraised to the local Alaskan market. If a buyer can demonstrate the lack of a local market for such material, the timber is to be re-appraised for export to markets outside Alaska. For Alaska yellow cedar, the logs are appraised for export. If Alaska yellow cedar is instead processed locally, the difference between the export value and the domestic market value will be rebated to the purchaser.

In FY 1999, new export permits were approved for a total of 7.3 MMBF of Tongass timber. This included 2.3 MMBF of Alaska yellow cedar, 2.3 MMBF of western red cedar, 0.6 MMBF of Sitka spruce sawlogs, 1.1 MMBF of western hemlock sawlogs, and 1.2 MMBF of utility logs.

Also in FY 1999, extensions of export permits issued in prior years were granted for roughly 7.5 MMBF of Tongass timber, including small amounts of Alaska yellow cedar and western red cedar, .8 MMBF of Sitka spruce sawlogs, 4.7 MMBF of western hemlock sawlogs, and 1.9 MMBF of utility logs. Applications for export permit extensions frequently cite the original volume requested for export and make no deduction for timber already shipped. Because of the way this information is collected and reported, it is not possible to tell what portion of the material has already been exported.

Finally, several export permits issued in prior years were still in effect during FY 1999. The total volume authorized under these permits was 52.7 MMBF. The species and grade breakdown includes 29.9 MMBF of Alaska yellow cedar, 2.7 MMBF of Sitka spruce sawlogs, 10.1 MMBF of western hemlock sawlogs, and 10.0 MMBF of utility logs. The bulk of the cedar was included in export authorizations for large timber offerings released to KPC. Again, these figures include all timber authorized for export and have not been adjusted for shipments that may have occurred after they were issued.

Table A-4 lists the permits approved in FY 1999, as well as permits from prior years that were still active in FY 1999. Permit holders must report the volume of logs exported each year. This information has been compiled and sorted by species and destination for calendar years 1995 through 1999 (Table A-5). In CY 1999, a total of 44.2 MMBF of logs were exported from the Tongass National Forest. The cedar species accounted for 72 percent of the material shipped.

### **Alaskan Wood Products Trade**

The combined value of Alaskan wood product exports held firm at \$207 million in FY 1999 (Table A-6). At \$463/MMBF, log export values declined for the fourth consecutive year, dropping another eight percent relative to last fiscal year. However, an increase in the volume of logs exported more than offset the lower unit values, lending stability to the overall dollar value of Alaska's wood products trade. At \$581/MMBF, lumber export values were up two percent relative to last fiscal year. Lumber export volumes held steady at 13 MMBF. The domestic market has accounted for an increasing share of Alaska's lumber production over the years. Unfortunately, statistics on domestic shipments are not regularly compiled or reported.

Japan remains the primary market for Alaska's wood product exports, accounting for 69 percent of the total dollar value in FY 1999. Ninety-nine percent of the dollar value of lumber exports was sent to Japan in FY 1999 (Table A-8). Considerably smaller shipments were sent to Belgium and Portugal, the only other sizeable foreign destinations for Alaska's lumber. Japan also purchased most of Alaska's log exports, receiving 68 percent of the total dollar value in FY 1999. South Korea (21 percent), Canada (8 percent), and Taiwan (2 percent) were other primary destinations (Table A-9).

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## Appendix Tables

TABLE A-1a.

## New Offerings Tongass Timber Sales FY 1999 (Post-FY 99 Summary)

**TABLE A-1b.**  
**Re-Offered Tongass Timber Sales FY 1999 (Post-FY 99 Summary)**

Name	Date Advertised	Indicated Advertised Rate (\$/MBF)	Advertised Rate (\$/MBF)	Logging Costs (\$/MBF)	Specified Road Costs (\$/MBF)	High Bid (\$/MBF)	Number of Bidders	Spruce (%)	Hemlock (%)	Yellow Cedar (%)	Red Cedar (%)	Total Volume (MBF)	High Bidder
<b>Petersburg Ranger District</b>													
Crane	6/12/99	-\$69.34	\$4.53	\$173.04	\$72.06	\$13.06	2	21	77	2	0	8,420	Viking Lumber
Clover	6/12/99	-\$185.20	\$5.17	\$203.76	\$122.35	No Bids	0	15	76	8	0	17,364	No Bid
Rowan Mt.	6/12/99	-\$17.95	\$5.36	\$226.67	\$26.24	\$5.36	1	27	69	5	0	20,231	Age Cedar Products
Todahl Backbone	6/12/99	-\$15.51	\$5.06	\$316.24	\$8.50	\$9.28	2	28	69	4	0	7,768	Age Cedar Products
<b>Sitka Ranger District</b>													
Rodman Bay	6/12/99	-\$81.09	\$6.86	\$299.07	\$27.02	No Bids	0	21	67	12	0	30,940	No Bid
<b>Craig Ranger District</b>													
Cable Drop	6/14/99	\$27.88	\$27.88	\$250.01	\$32.28	\$30.67	1	17	50	18	15	11,842	Gateway
Dumpy ATC	4/13/99	-\$9.81	\$8.04	\$209.80	\$57.41	\$24.88	1	15	54	7	25	18,193	Gateway
<b>Ketchikan Ranger District</b>													
Brand X	4/13/99	-\$89.29	\$5.73	\$212.54	\$35.89	\$6.83	1	13	76	4	7	1,846	Gateway
<b>Thorne Bay Ranger District</b>													
Big Bob	6/12/99	\$.18	\$10.33	\$260.37	\$83.74	\$14.01	1	17	49	33	1	7,170	Gateway
Big Salt	6/12/99	-\$210.16	\$7.41	\$257.29	\$163.34	No Bids	0	23	-	59	11	7	8,274
Hard Steel	6/12/99	-\$83.51	\$7.47	\$223.73	\$76.45	No Bids	0	9	67	14	10	4,766	No Bid
Rio Beaver	6/12/99	\$24.38	\$24.38	\$210.01	\$70.66	\$26.00	1	12	46	14	28	5,579	Gateway
Rush Angel (1)	6/12/99	-\$219.23	\$11.70	\$262.50	\$164.73	No Bid	0	11	54	12	23	5,837	No Bid
Rush Fast	6/12/99	-\$74.80	\$13.96	\$198.71	\$115.18	\$23.44	1	7	45	6	41	789	Little Bit Logging
Summit Exchange	6/12/99	-\$97.45	\$11.07	\$251.88	\$153.15	No Bids	0	18	48	20	15	11,023	No Bid
Wolf Pup	6/12/99	-\$188.75	\$7.99	\$225.78	\$196.49	\$9.11	1	16	63	11	10	1,209	New Age Mining
<b>Tongass Sales &lt; 500 MBF in size</b>													
												452	No Bids
												161,775	TOTAL
												78,625	Subtotal NO-BID

**TABLE A-2.**  
**Employment in the Wood Products Industry<sup>1</sup>**  
**Southeast Alaska, Fiscal Years 1981-1999**

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Tongass Logging <sup>2</sup>	267	335	574	513	559	692	862	1,010	1,166	1,123	872	788	754	621	702	804	823	579	305
Sawmill	605	540	429	395	363	331	375	468	478	500	604	538	447	515	301	230	184	284	303
Pulp Mill	1,081	975	854	700	580	772	861	892	925	899	911	910	859	533	516	524	318	96	63
Tongass-Related Direct Employment <sup>3</sup>	1,953	1,850	1,857	1,608	1,502	1,795	2,098	2,370	2,569	2,522	2,387	2,236	2,060	1,669	1,519	1,558	1,325	959	671
Other Logging	780	656	436	433	445	547	683	971	947	1,021	682	627	590	556	483	353	226	310	519
Total Direct Industry Employment	2,733	2,506	2,293	2,041	1,947	2,342	2,781	3,341	3,516	3,543	3,069	2,863	2,650	2,225	2,002	1,911	1,551	1,269	1,190
Total Indirect Employment <sup>4</sup>	2,125	1,950	1,800	1,600	1,500	1,825	1,950	2,350	2,550	2,570	2,226	2,077	1,935	1,624	1,461	1,395	1,132	926	869
<b>TOTAL DIRECT + INDIRECT EMPLOYMENT</b>	<b>4,858</b>	<b>4,456</b>	<b>4,093</b>	<b>3,641</b>	<b>3,447</b>	<b>4,167</b>	<b>4,731</b>	<b>5,691</b>	<b>6,066</b>	<b>6,113</b>	<b>5,295</b>	<b>4,940</b>	<b>4,585</b>	<b>3,849</b>	<b>3,463</b>	<b>3,306</b>	<b>2,683</b>	<b>2,195</b>	<b>2,059</b>

<sup>1</sup> Includes employment related to the harvest and processing of timber from all ownerships in Southeast Alaska. According to the Alaska Department of Labor, non-residents accounted for 40.1% of timber industry employment in 1997.

<sup>2</sup> Estimate. Based on the ratio of Tongass timber harvest to total timber harvest in Southeast Alaska.

<sup>3</sup> Assumes all employment in sawmills and pulp mills is dependent on Tongass timber supply. Source: Alaska Department of Labor and USDA Forest Service, Region 10, Ecosystem Planning and Budget.

<sup>4</sup> Jobs related to logging and milling operations, such as road construction and stevedoring are counted as indirect employment. Two computer simulation models (IPASS and IMPLAN) were used to estimate indirect employment. The distinction between direct and indirect employment is a function of the Standard Industrial Classification (SIC) System used nationally for the collection and grouping of economic statistics. For purposes of this report, the wood products "industry" is defined as logging, sawmills, and pulp mills. Persons employed in these businesses are reported here as "direct" employment. "Indirect" employment refers to the persons employed in all businesses supporting operation of the wood products industry. Other indirect jobs are supported when industry employees spend their take-home pay in local communities.

**TABLE A-3.**  
**Volume of Timber Offered, Sold, and Harvested**  
**Tongass National Forest, Fiscal Years 1988-1999**  
*(million board feet, net sawlog + utility)*

	Short-Term			Long-Term Contracts <sup>1</sup>			Program Total				
	Offer	Sold	Harvest	Prepared	Released	Harvest	Offer/Prepared	Re-Offer	Total Offer	Sold/Released	Harvest
1988	92	70	100	365	266	296	387	30	417	336	396
1989	93	92	142	276	198	303	369	2	371	290	445
1990	54	26	173	331	287	298	385	22	407	313	471
1991	79	52	90	318	354	273	397	35	432	405	363
1992	40	81	72	449	357	298	489	27	516	429	370
1993	61	45	55	257	303	270	318	32	350	348	325
1994	100 <sup>2</sup>	52	48	207 <sup>3</sup>	217 <sup>3</sup>	228	307	30	337	269	276
1995	110 <sup>4</sup>	102 <sup>2</sup>	59	217 <sup>5</sup>	159	162	327	0	327	261	221
1996	58	69	27	192	158	93	250	31	281	227	120
1997	138	152	37	50	50	69	188	6	194	202	107
1998	186	24	40	0	0	80	186	14	200	24	120
1999	115	62	60	0	0	86	115	162	277	62	146

<sup>1</sup> The activities related to the long-term contracts are somewhat different than those of the short-term sale program. The following clarifications are provided in reference to the figures provided above.

Volume Offered: Under the short-term sale program, this refers to advertised volume. The volume fully prepared and available is reported here as a comparable measure for the long-term contracts.

Volume Sold: Under the short-term sale program, this refers to volume awarded to purchasers. The volume formally released to contract holders is reported here as a comparable measure for the long-term contracts. Timber is counted as being released under the long-term contracts when a timber offering has been accepted by the purchaser.

<sup>2</sup> 53.8 MMBF enjoined by court decision in *AWRTA v. Morrison*

<sup>3</sup> 40.9 MMBF enjoined by court decision in *AWRTA v. Morrison*

<sup>4</sup> 67.7 MMBF enjoined by court decision in *AWRTA v. Morrison*

<sup>5</sup> 57.8 MMBF enjoined by court decision in *AWRTA v. Morrison*

**TABLE A-4. Tongass National Forest Log Export Permits Issued and/or Effective CY 1999**

Originating Timber Sale	Purchaser	Sale Date	Permit No.	Expires	Spruce MBF	Hemlock MBF	Alaska Cedar MBF	W Red Cedar MBF	Utility MBF	Total MBF
West Steel	Little Bit Logging	Oct-98	99-01	3/31/00			30			30
6245 Salvage#0233321	Danger Point	Jan-98	99-02	12/31/99			12			12
Picasso	Seley Family	Sep-98	99-03	12/31/99			83			83
Cloudy	Seley Family	Jun-98	99-04	5/31/00			314			314
Control Center	Viking Lumber	Nov-98	99-05	3/31/01			173			173
North Thorne	Viking Lumber	Nov-98	99-06	3/31/01			112			112
Bohemian	Viking Lumber	Oct-95	99-07	3/31/02			74			74
Etolin	Siver Bay Logging	Jul-98	99-08	10/31/00			202			202
Nemo Loop	Silver Bay Logging	Jan-99	99-09	12/31/99			676			676
Shamrock	Viking Lumber	Oct-95	99-10	3/31/02			164			164
Turn 3	Silver Bay Logging	Oct-98	99-11	10/31/02			264			264
ATC	Rayonier	Jun-97	99-12	12/31/99					330	330
ATC	Rayonier	Jun-97	99-13	12/31/99						2,543
Rowan Settlement	Rayonier	Aug-97	99-14	12/31/99						1,534
Rowan Settlement	Rayonier	Aug-97	99-15	12/31/99						2,975
Stringer Fuelwood	D & L Woodworks	Jan-96	99-16	12/31/99						50
Etolin	Silver Bay Logging	Jul-98	99-17	10/31/00						791
Heetca Sawfly	Age Cedar	Mar-97	99-18	9/30/01						
Heetca Sawfly	Age Cedar	Mar-97	99-19	9/30/01						110
Two Socks	Danger Point	Dec-98	99-20	3/31/00						319
Nemo Loop	Silver Bay Logging	Jan-99	99-21	9/30/02						6
Etolin	Silver Bay Logging	Jul-98	99-22	10/31/00						1,104
Nemo Loop	Silver Bay Logging	Jan-99	99-23	9/30/02						212
Turn 3	Silver Bay Logging	Oct-98	99-24	10/31/02						543
Misplaced	Pat Richter	Sep-97	99-25	10/31/00						6
Third Bridge	Whitestone	Apr-99	99-26a	12/31/99						290
Rush Fast	Little Bit Logging	Jun-99	99-27	12/31/99						125
Sonyakay Salvage	North Star	Jul-98	99-28	12/31/99						125
Sonyakay Salvage	North Star	Jul-98	99-28a	12/31/99						125
Foot	SE Alaska Wood Prod.	Mar-99	99-29	3/31/00						102
Rock Twin	SE Alaska Wood Prod.	Feb-99	99-30	3/31/00						46
Election Creek Cedar Salvage	Jerry Jones	Aug-99	99-31	9/30/00						19
Saginaw	Rayonier	Mar-95	99-32	Disapproved						14
Loft	Frank Age	Sep-97	99-33	12/31/99						0
Peep Rock	Seley Family	Dec-97	99-34	12/31/99						50
										47
										TOTAL 14,836
					1,346	5,826	2,326	2,317	3,021	14,836

Table A-4. Continued. Permits Issued in Prior Years

Originating Timber Sale	Purchaser	Sale Date	Permit No.	Expires	Spruce MBF	Hemlock MBF	Alaska Cedar MBF	W Red Cedar MBF	Utility MBF	Total MBF
Humpback/Gallagher	Whitestone SE Logging	Apr-97	98-04	9/30/99	2	8				10
Saook Bay	Silver Bay Logging	Sep-94	98-12	Disapproved						0
Little Hamilton Salvage Resale	Thorne Bay Lumber, Ent.	Apr-98	98-18	3/31/99						73
Southfork Salvage	Jerry Jones	Jun-98	98-19	6/30/99						10
South McKenzie	Silver Bay Logging	Jul-95	98-21	3/31/00	100					100
Southfork Salvage	Jerry Jones	Jun-98	98-22	6/30/99						9
Southfork Salvage	Jerry Jones	Jun-98	98-23	6/30/99						24
Appleton Cove Resale	Silver Bay Logging	Oct-94	98-24	9/30/99	50					50
Tributary	D&L Woodworks	Jul-96	98-26	12/31/99						50
Suniaheen	Whitestone SE Logging	Mar-98	98-27	12/31/99	13	9				28
One-Two-Three	Whitestone SE Logging	Mar-98	98-28	12/31/99	4	2				8
Rowan Settlement	Rayonier, Inc.	Aug-97	98-31	3/31/00						14
Little Hamilton Salvage Resale	Thorne Bay Lumber, Ent.	Apr-98	98-33	3/31/99	30					595
ATC	Little Hamilton Salvage Resale Thorne Bay Lumber, Ent.	Apr-98	98-34	3/31/99	60					60
Kwaii	Rayonier, Inc.	Sep-97	98-37	12/31/99						878
Green Creek Settlement	Pat Richter	Sep-97	98-38	12/31/99	100					100
Lancaster and Sentinel	Greens Creek Mining	Mar-98	98-39	12/31/99						15
Slide/Lava	Selley Family	Jun-97	98-42	12/31/99						15
South Margaret	Kechikan Pulp Co.	Feb-97	97-14	12/31/99						45
Trumpeter 6	Kechikan Pulp Co.	Feb-97	97-15	12/31/99						102
Bushy Chin	Kechikan Pulp Co.	Feb-97	97-16	12/31/99						1,650
West Polk	Kechikan Pulp Co.	Feb-97	97-17	12/31/99						221
Big Dewey	Kechikan Pulp Co.	Feb-97	97-18	12/31/99						221
North Thorne/Little Ratz	Kechikan Pulp Co.	Feb-97	97-19	12/31/99						1,589
KHS	Kechikan Pulp Co.	Feb-97	97-20	12/31/99						4,168
Thorne Bay II	Kechikan Pulp Co.	Feb-97	97-21	12/31/99						3,712
East Polk	Kechikan Pulp Co.	Feb-97	97-22	12/31/99						3,447
Little Coal Bay	Kechikan Pulp Co.	Feb-97	97-23	12/31/99						3,660
Naukati/Sarkar	Kechikan Pulp Co.	Feb-97	97-24	12/31/99						1,421
East 12 Mile	Kechikan Pulp Co.	Feb-97	97-25	12/31/99						1,720
Saginaw	Rayonier, Inc.	Mar-95	97-70	12/31/01						2,382
Saginaw	Rayonier, Inc.	Mar-95	97-71	12/31/01						3,077
Saginaw	Rayonier, Inc.	Mar-95	97-72	12/31/01						8,369
Saook Bay	Silver Bay Logging	Sep-94	96-72	9/15/00	2,000	2,000	300	451	6,800	11,100
<b>TOTAL</b>					<b>2,679</b>	<b>10,080</b>	<b>29,931</b>	<b>12</b>	<b>9,987</b>	<b>52,689</b>

TABLE A-5. Tongass National Forest Log Exports – CY 1995-1999

Date	Location	Volume Shipped					
		AYC	WRC	SS	WH	Other	Total
CY 1995	Canada		101	162	766		1,029
	Japan	14,132	22,202	30	53		36,418
	Korea		40				40
	Taiwan		3				3
	Washington	144	1,297	13			
	Not Reported	728		34	194		955
	TOTAL	15,003	23,643	240	1,013		39,899
CY 1996	Canada	155	113	3	7		279
	Japan	7,391	5,714	516	127		13,747
	Korea		12		10		22
	Taiwan	1	560				561
	Washington	118	300	743	1,617	30	2,808
	Not Reported	6					6
	TOTAL	7,670	6,699	1,262	1,762	30	17,423
CY 1997	Canada	17		3,625	5,247		8,889
	Japan	7,200	3,977	1,464	2,859		15,500
	Korea		761	14	160		935
	Taiwan	338	3,527	174	162		4,201
	Oregon	4		5	4,668		4,676
	Washington	9	3,321	8	131		3,469
	Not Reported	225	380	26	106		737
	TOTAL	7,793	11,967	5,316	13,332		38,407
CY 1998	Canada	45	1,189	787	2,384		6,448
	Japan	4,777	213	54	105		5,149
	Korea	0	0	33	193		226
	Taiwan	1,291	1,971	1	17		3,279
	Oregon	0	0	29	4,522		4,552
	Washington	313	2,647	163	403		3,868
	Not Reported			18	1		19
	TOTAL	6,426	6,020	1,085	7,625		23,541
CY 1999	Canada	29	59	247	865		1,200
	Pacific Rim	13,600	7,938	1,401	4,944		27,883
	Lower 48	8,080	2,215	45	4,804		15,144
	TOTAL	21,709	10,212	1,693	10,613		44,227

**TABLE A-6.**  
**International Exports of Alaskan Wood Products**  
**Fiscal Years 1981-1999**

Product/Unit <sup>1</sup>	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>SOFTWOOD LOGS</b>																			
Volume (MMBF)																			
Value (\$MM)	130.1	197.5	292.6	237.6	258.6	340.3	436.1	482.2	629.6	606.6	516.9	537.4	500.2	518.9	542.7	550.9	585.9	373.4	415.7
Unit Value(\$/MBF)	68.4	95.4	128.3	97.1	99.6	137.9	179.6	261.6	310.3	350.9	293.9	327.4	362.6	391.7	347.7	390.0	381.9	188.8	192.2
Inflation Adjusted (\$/98/MBF)	526	483	439	408	385	405	412	543	493	578	569	609	725	755	641	708	652	506	463
<b>LUMBER AND CANTS</b>																			
Volume (MMBF)	202.5	178.6	136.0	113.3	122.0	93.5	121.0	152.5	182.3	225.5	180.7	120.8	145.2	122.7	73.3	25.9	30.8	13.1	13.3
Value (\$MM)	60.3	62.5	45.5	32.2	32.5	24.7	33.9	52.1	71.0	85.3	74.8	50.3	74.4	67.7	51.5	20.9	18.1	7.5	7.7
Unit Value(\$/MBF)	298	350	334	284	266	264	280	342	389	378	414	416	512	552	702	747	587	571	581
Inflation Adjusted (\$/98/MBF)	525	574	526	429	387	373	384	453	493	460	482	471	566	599	748	780	600	571	575
<b>WOODCHIPS</b>																			
Volume (Thousands Metric Tons)	60.5	84.8	19.0	10.5	4.5	0.0	0.0	10.4	77.9	18.2	87.8	19.5	41.3	69.1	102.1	166.8	107.1	135.8	96.2
Value (\$MM)	5.5	6.4	1.3	0.3	0.4	0.0	0.0	0.6	3.6	1.4	7.3	1.5	4.3	8.2	15.2	17.4	8.3	11.3	7.2
Unit Value(\$/Metric Ton)	90	75	66	32	98	0	0	54	46	78	83	79	105	119	149	105	77	83	55
Inflation Adjusted (\$/98/Metric Ton)	159	123	104	48	142	0	0	71	58	95	97	89	116	132	159	110	79	83	54
<b>WOODPULP</b>																			
Volume (Thousands Metric Tons)	252.9	211.0	188.5	249.5	166.5	203.8	232.0	260.4	296.9	289.3	263.8	209.5	156.8	146.5	101.6	82.9	0	0	
Value (\$MM)	135.7	113.3	94.8	127.3	72.0	85.4	113.9	160.4	227.7	203.4	162.2	175.0	123.3	90.1	134.0	88.1	50.0	0	0
Unit Value(\$/Metric Ton)	537	601	503	510	433	419	492	616	767	703	615	585	588	575	915	867	603	0	0
Inflation Adjusted (\$/98/Metric Ton)	947	986	793	770	630	592	675	816	972	856	716	662	650	624	974	905	616	0	0
<b>TOTAL VALUE (\$MM)</b>	<b>269.9</b>	<b>277.6</b>	<b>269.9</b>	<b>256.9</b>	<b>204.5</b>	<b>327.4</b>	<b>474.7</b>	<b>612.7</b>	<b>641.0</b>	<b>538.2</b>	<b>554.2</b>	<b>564.6</b>	<b>557.7</b>	<b>548.4</b>	<b>516.4</b>	<b>458.3</b>	<b>207.6</b>	<b>207.1</b>	

<sup>1</sup> Values are free along ship (FAS) in millions of dollars. Source: Compiled from official statistics reported by the U.S. Department of Commerce (1999).

**TABLE A-7.**  
**Timber Harvest and Imports for Southeast and Southcentral Alaska**  
**Fiscal Years 1981-1999**

		1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
<b>Southeast Alaska</b>														
Tongass N.F.	Sawlogs	282.0	331.5	377.0	399.0	299.6	303.1	268.3	221.8	181.3	97.4	94.4	107.6	132.8
	Utility Logs	54.2	64.7	67.6	72.0	64.6	66.6	56.7	54.0	39.8	22.8	12.2	12.2	12.9
State of Alaska	Sawlogs	19.5	16.8	11.4	11.1	4.0	14.9	5.0	18.1	3.6	4.5	5.2	5.6	7.3
BIA	Utility Logs	0.3	0.1	1.0	0.0	0.1	0.0	0.0	2.7	2.2	2.5	0.3	1.9	0.1
Alaska Native Corporations <sup>2</sup>	Sawlogs	282.5	277.0	419.8	433.7	307.2	348.7	328.2	275.0	233.9	292.4	335.9	157.6	193.6
Alaska Native Corporations <sup>2</sup>	Utility Logs	121.5	118.1	112.1	72.4	147.4	97.0	82.2	12.3	81.1	37.7	47.6	59.0	45.4
Total Southeast Harvest	Sawlogs	584.0	625.3	811.7	843.8	618.3	671.2	601.5	514.9	418.8	394.3	435.5	270.8	333.7
	Utility Logs	176.0	182.9	179.8	145.4	212.0	163.7	138.9	69.0	123.1	63.0	60.1	73.1	58.4
Total Southeast Harvest	<b>Total</b>	760.0	808.2	991.5	989.2	830.3	834.9	740.4	583.9	541.9	457.3	495.6	343.9	392.1
<b>Southcentral Alaska</b>														
Chugach N.F.	Sawlogs	0.7	1.0	1.1	1.1	0.5	1.7	0.0	1.1	1.3	0.8	0.8	0.8	0.1
	Utility Logs	0.0	0.0	0.4	0.4	0.0	0.0	0.0	6.5	0.8	2.0	1.4	0.7	0.3
State of Alaska	Sawlogs	1.1	0.5	0.5	0.4	1.7	0.8	0.0	0.0	2.6	8.1	8.6	5.0	5.4
Alaska Native Corporations <sup>2</sup>	Utility Logs	0.8	1.6	1.6	0.6	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Alaska Native Corporations <sup>2</sup>	Sawlogs	44.2	79.2	120.0	105.1	134.5	123.5	127.2	186.0	210.6	199.6	197.4	88.7	108.4
Alaska Native Corporations <sup>2</sup>	Utility Logs	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	19.5	8.0	39.7	83.5	31.5
Total Southcentral Harvest	Sawlogs	46.0	80.7	121.6	106.6	137.3	124.8	128.9	186.0	214.3	209.0	206.8	94.5	113.9
	Utility Logs	0.8	8.0	2.0	1.0	1.2	0.2	0.0	6.5	20.3	10.0	41.1	84.3	31.8
Total Southcentral Harvest	<b>Total</b>	46.8	88.7	123.6	107.6	138.5	125.0	128.9	192.5	234.3	219.0	247.9	178.8	145.7
Alaskan Imports	Sawlogs	5.7	0.1	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Utility Logs	5.1	6.8	1.9	0.0	0.0	3.0	3.0	3.0	11.5	34.1	0.0	0.0	0.0
Alaskan Imports	<b>Chips<sup>3</sup></b>	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

<sup>2</sup> Estimated from trade statistics and data provided by local mills.

<sup>3</sup> Compiled from official statistics reported by the U.S. Department of Commerce. Cords of utility logs are converted to log scale at a rate of 2 cords/MBF. Metric tons are converted to log scale at a ratio of 2.7 tons per MBF.

**TABLE A-8.**  
**Softwood Lumber and Cant Exports from Alaska**  
**Fiscal Years 1988-1999<sup>1</sup>**

	VOLUME (MBF)											
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Australia	15	0	0	0	0	0	0	0	0	0	0	0
Belgium	0	0	0	0	0	0	0	0	0	0	0	18
Canada	2,064	88	16	0	657	4	0	0	69	3	256	0
Hong Kong	0	24	0	0	0	0	0	0	0	0	0	0
Iceland	245	0	0	0	0	0	0	0	0	0	0	0
Ireland	0	18	0	0	0	0	0	0	0	0	0	0
Italy	0	38	0	0	0	0	0	0	0	0	0	0
Japan	145,343	180,874	211,189	169,160	117,615	135,598	116,184	72,765	25,783	29,368	10,798	13,238
Korea, South	4,305	1,099	7,022	3,203	0	8,804	1,994	1,462	0	344	0	0
Morocco	0	0	2,379	0	0	0	0	0	0	0	0	0
Netherlands	298	0	0	0	0	0	0	0	0	0	0	0
Portugal	0	0	0	0	0	0	0	0	0	0	0	18
Saudi Arabia	0	0	2,921	3,606	0	0	0	0	0	0	0	0
Singapore	0	0	0	0	0	0	0	0	0	0	8	1
Taiwan	188	87	0	220	2,597	777	4,553	65	0	0	2,070	0
United Kingdom	36	94	0	0	0	0	0	0	0	0	0	0
World	152,504	182,322	223,527	176,189	120,869	145,249	122,731	73,291	25,853	29,715	13,132	13,275
	VALUE (\$M)											
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Australia	\$11	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Belgium	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$31
Canada	\$739	\$24	\$5	\$0	\$164	\$4	\$0	\$0	\$17	\$3,182	\$48	\$0
Hong Kong	\$0	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Iceland	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ireland	\$0	\$5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Italy	\$0	\$31	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Japan	\$48,385	\$70,309	\$80,186	\$70,361	\$49,557	\$64,734	\$63,122	\$49,400	\$20,922	\$17,561	\$6,996	\$7,650
Korea, South	\$2,754	\$559	\$3,281	\$1,851	\$0	\$9,422	\$3,509	\$2,002	\$0	\$101	\$0	\$0
Morocco	\$0	\$0	\$770	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Netherlands	\$89	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Portugal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$27
Saudi Arabia	\$0	\$0	\$555	\$701	\$0	\$0	\$0	\$0	\$0	\$9	\$0	\$0
Singapore	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6	\$3
Taiwan	\$80	\$23	\$0	\$88	\$579	\$226	\$1,094	\$58	\$0	\$0	\$442	\$0
United Kingdom	\$14	\$29	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
World	\$52,117	\$70,984	\$84,797	\$73,001	\$50,300	\$74,399	\$67,725	\$51,461	\$20,939	\$20,844	\$7,493	\$7,711

<sup>1</sup> Compiled from official statistics published by the U.S. Department of Commerce, 1999.

**TABLE A-8 (continued)**  
**Softwood Lumber and Cant Exports from Alaska**  
**Fiscal Years 1988-1999<sup>2</sup>**

	UNIT VALUE (\$/MBF)											
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Australia	\$742	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Belgium	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,701
Canada	\$358	\$272	\$319	\$0	\$250	\$1,049	\$0	\$0	\$243	\$1,061	\$188	\$0
Hong Kong	\$0	\$169	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Iceland	\$184	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ireland	\$0	\$281	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Italy	\$0	\$813	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Japan	\$333	\$389	\$380	\$416	\$421	\$477	\$543	\$688	\$812	\$598	\$648	\$578
Korea, South	\$638	\$509	\$467	\$578	\$0	\$0	\$1,760	\$1,369	\$0	\$294	\$0	\$0
Morocco	\$0	\$0	\$324	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Netherlands	\$299	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Portugal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,517
Saudi Arabia	\$0	\$0	\$190	\$194	\$0	\$1,070	\$0	\$0	\$0	\$0	\$0	\$0
Singapore	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$691	\$3,323
Taiwan	\$425	\$265	\$0	\$400	\$223	\$291	\$240	\$895	\$0	\$0	\$214	\$0
United Kingdom	\$389	\$308	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
World	\$342	\$389	\$379	\$414	\$416	\$512	\$552	\$702	\$747	\$701	\$571	\$581

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<sup>2</sup> Compiled from official statistics published by the U.S. Department of Commerce, 1999.

TABLE A-9.

## Softwood Log Exports from Alaska

Fiscal Years 1988-1999<sup>1</sup>

VOLUME (MBF)												
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Australia	18	11	0	0	0	0	0	0	0	0	0	0
Canada	70,117	38,029	12,595	15,393	4,477	2,978	1,049	78,256	29,223	33,496	117,886	77,042
China	11,647	12,259	1,326	19,132	26,049	24,528	17,329	3,775	8,488	2,256	3,030	2,649
Germany, West	11	0	0	0	0	0	0	0	0	0	0	0
Hong Kong	0	0	0	0	4,505	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0	0	0	0	3,509	0
Jamaica	0	0	0	4,636	0	0	0	0	0	0	0	0
Japan	302,594	460,792	465,152	359,842	384,553	311,200	391,911	344,599	373,467	400,460	179,943	234,879
Korea, South	86,781	108,540	109,264	94,448	90,170	135,264	84,780	94,541	120,076	134,340	59,296	90,287
Switzerland	0	0	0	0	0	0	0	0	0	0	1,490	883
Taiwan	8,988	9,926	18,199	23,411	27,728	26,203	23,851	21,538	0	0	8,210	9,934
Turkey	1,822	0	0	0	0	0	0	0	0	0	0	0
World	481,978	629,557	606,535	516,862	537,483	500,173	518,920	542,710	550,901	570,552	373,366	415,673
VALUE (\$M)												
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Australia	\$35	\$15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Canada	\$9,313	\$8,625	\$3,924	\$4,218	\$2,049	\$697	\$597	\$24,478	\$10,768	\$7,034	\$26,366	\$14,494
China	\$3,229	\$3,735	\$548	\$11,072	\$16,562	\$15,482	\$10,269	\$1,530	\$4,389	\$1,225	\$1,874	\$886
Germany, West	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
Hong Kong	\$0	\$0	\$0	\$0	\$3,528	\$0	\$0	\$0	\$0	\$0	\$0	0
India	\$0	\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,384
Jamaica	\$0	\$0	\$0	\$3,397	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
Japan	\$211,450	\$252,323	\$289,217	\$231,217	\$256,811	\$256,032	\$318,520	\$255,998	\$290,999	\$292,597	\$121,189	\$131,361
Korea, South	\$33,833	\$41,315	\$47,518	\$33,456	\$33,927	\$71,055	\$47,703	\$51,963	\$71,141	\$68,656	\$30,490	\$40,518
Switzerland	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750	\$675
Taiwan	\$3,778	\$4,335	\$9,628	\$10,553	\$14,782	\$19,321	\$14,599	\$13,721	\$0	\$0	\$5,807	\$4,321
Turkey	\$246	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
World	\$261,901	\$310,348	\$350,835	\$293,913	\$327,659	\$362,587	\$391,669	\$347,688	\$389,964	\$369,512	\$188,832	\$192,235
UNIT VALUE (\$/MBF)												
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Australia	\$1,934	\$1,416	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Canada	\$133	\$227	\$312	\$274	\$458	\$234	\$569	\$322	\$369	\$210	\$223	\$188
China	\$277	\$305	\$413	\$579	\$636	\$631	\$593	\$405	\$517	\$543	\$619	\$327
Germany, West	\$1,540	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Hong Kong	\$0	\$0	\$0	\$0	\$783	\$0	\$0	\$0	\$0	\$0	\$0	\$0
India	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$680	\$0
Jamaica	\$0	\$0	\$0	\$733	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Japan	\$699	\$548	\$622	\$643	\$668	\$823	\$813	\$743	\$779	\$731	\$673	\$559
Korea, South	\$390	\$381	\$435	\$354	\$376	\$525	\$563	\$550	\$593	\$511	\$514	\$449
Switzerland	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$503	\$764
Taiwan	\$420	\$437	\$529	\$451	\$533	\$737	\$612	\$637	\$0	\$0	\$707	\$435
Turkey	\$135	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
World	\$543	\$493	\$578	\$569	\$610	\$725	\$755	\$641	\$708	\$648	\$506	\$462

<sup>1</sup> Compiled from official statistics published by the U.S. Department of Commerce, 1999.

**TABLE A-10.**  
**Chip Exports from Alaska**  
**Fiscal Years 1988-1999<sup>2</sup>**

VOLUME (Metric Tons)												
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Canada	0	0	3,810	0	7,790	6,277	0	0	0	15,522	33,179	96,203
Japan	10,437	77,918	14,355	87,767	11,700	35,054	69,067	102,084	166,819	85,571	102,646	35,193
Korea, South	0	0	0	0	0	0	0	0	0	6,007	0	0
World	10,437	77,918	18,165	87,767	19,490	41,331	69,067	102,084	166,819	107,100	135,825	131,396
VALUE (\$M)												
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Canada	\$0	\$0	\$134	\$0	\$203	\$134	\$0	\$0	\$0	\$1,351	\$1,375	\$4,019
Japan	\$559	\$3,620	\$1,285	\$7,279	\$1,343	\$4,199	\$8,216	\$15,189	\$17,488	\$6,521	\$9,902	\$3,189
Korea, South	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$396	\$0	\$0
World	\$559	\$3,620	\$1,419	\$7,279	\$1,546	\$4,333	\$8,216	\$15,189	\$17,488	\$8,268	\$11,277	\$7,208
UNIT VALUE (\$/Metric Ton)												
	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Canada	\$0	\$0	\$35	\$0	\$26	\$21	\$0	\$0	\$0	\$87	\$41	\$42
Japan	\$54	\$46	\$90	\$83	\$115	\$120	\$119	\$149	\$105	\$76	\$96	\$91
Korea, South	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$66	\$0	\$0
World	\$54	\$46	\$78	\$83	\$79	\$105	\$119	\$149	\$105	\$77	\$83	\$55

<sup>2</sup> Compiled from official statistics published by the U.S. Department of Commerce, 1999.

**TABLE A-11.**  
**Japanese Imports of Softwood Logs and Lumber**  
**Calendar Years 1983-1999<sup>1</sup>**

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
<b>SOFTWOOD LUMBER (MBF<sup>2</sup>)</b>													
United States	577,622	522,354	558,725	721,678	923,680	983,549	1,112,733	1,050,406	1,019,237	896,018	857,142	788,254	748,193
Canada	849,408	817,447	916,030	882,669	1,172,328	1,337,909	1,565,897	1,568,587	1,786,722	1,870,031	2,312,241	2,338,706	2,464,340
Russia	54,488	61,964	64,240	71,531	76,014	94,212	110,675	112,355	101,653	95,132	120,648	148,448	179,669
New Zealand	114,863	76,458	65,531	49,583	55,909	53,006	45,025	88,153	109,214	105,311	99,636	106,894	123,350
Chile <sup>3</sup>	0	0	0	71,268	90,662	138,648	137,990	172,456	168,125	112,858	168,719	128,897	227,624
South Seas	20,776	14,987	31,202	45,407	46,626	50,115	49,961	33,061	45,343	41,262	57,259	56,006	55,371
Other	42,709	70,379	103,381	70,215	115,553	113,803	135,177	97,381	71,495	55,648	143,056	280,995	390,055
<b>TOTAL</b>	<b>1,659,867</b>	<b>1,563,590</b>	<b>1,739,108</b>	<b>1,912,352</b>	<b>2,480,771</b>	<b>2,771,242</b>	<b>3,157,519</b>	<b>3,122,399</b>	<b>3,301,791</b>	<b>3,176,260</b>	<b>3,758,702</b>	<b>3,848,201</b>	<b>4,189,601</b>
<b>SOFTWOOD LOGS (MBF)</b>													
United States	1,693,721	1,586,590	1,721,419	1,836,462	2,134,399	2,072,889	2,411,951	2,255,062	1,969,603	1,863,723	1,673,622	1,602,149	1,545,944
Canada	162,791	263,219	304,507	315,053	414,966	261,816	193,086	112,947	89,677	163,682	107,305	65,378	40,009
Russia	1,299,021	115,466	1,103,352	1,238,568	1,217,785	1,109,627	974,361	899,102	791,052	798,072	1,002,974	980,007	1,088,101
New Zealand	69,015	67,467	64,955	57,384	85,867	125,688	168,394	296,545	355,151	410,763	378,877	411,008	412,005
Chile <sup>3</sup>	0	0	0	59,568	55,271	47,623	53,261	68,894	60,451	35,667	44,387	26,042	23,989
South Seas	37,845	46,002	39,568	28,244	28,800	26,171	33,919	38,957	27,257	18,833	15,951	21,392	14,714
Other	52,543	82,444	89,060	5,052	5,847	5,680	12,813	11,112	9,972	13,205	29,649	81,264	143,613
<b>TOTAL</b>	<b>3,314,936</b>	<b>2,160,904</b>	<b>3,322,861</b>	<b>3,540,330</b>	<b>3,942,934</b>	<b>3,649,473</b>	<b>3,847,783</b>	<b>3,682,620</b>	<b>3,303,165</b>	<b>3,303,945</b>	<b>3,252,765</b>	<b>3,187,239</b>	<b>3,268,376</b>

<sup>1</sup> Source: Wood Supply and Demand Information Service, various issues. Published by Japan Wood Products Information and Research Center.

<sup>2</sup> Converted from cubic meters at a rate of 4.53 MBF log scale/m<sup>3</sup> and 2.36 MBF lumber tally/m<sup>3</sup>.

<sup>3</sup> Prior to 1986, imports from Chile were included in the "Other" category.

TABLE A-11 (continued).  
 Japanese Imports of Softwood Logs and Lumber  
 Calendar Years 1983-1999

	1996	1997	1998	1999	SOFTWOOD LUMBER (MBF)
United States	746,171	557,158	284,847	284,995	
Canada	2,554,453	2,395,599	1,617,139	1,918,153	
Russia	171,938	221,602	131,371	194,083	
New Zealand	121,125	143,129	104,620	114,458	
Chile	172,790	258,567	161,154	184,392	
South Seas	53,683	50,696	40,240	51,280	
Other	555,422	949,947	501,619	837,697	
<b>TOTAL</b>	<b>4,375,583</b>	<b>4,576,698</b>	<b>2,840,990</b>	<b>3,585,058</b>	
					SOFTWOOD LOGS (MBF)
United States	1,508,576	1,224,494	925,654	861,020	
Canada	26,169	25,896	101,993	184,541	
Russia	1,107,518	1,269,295	979,960	1,256,964	
New Zealand	471,006	437,263	412,709	355,230	
Chile	28,289	33,847	24,345	21,772	
South Seas	14,043	8,406	6,712	5,538	
Other	78,670	82,805	54,536	80,574	
<b>TOTAL</b>	<b>3,234,272</b>	<b>3,082,005</b>	<b>2,505,909</b>	<b>2,765,639</b>	

**TABLE A-12.**  
**Housing Starts in Japan<sup>1</sup>**

Year	Total Number of Starts	Number Wood-Based	Percent Wood-Based	Average Floorspace (ft <sup>2</sup> ) Wood-Based	Average Floorspace (ft <sup>2</sup> ) Non-Wood
1965	842,596	646,536	77%		
1970	1,484,556	1,035,500	70%		
1972	1,807,581	1,111,846	62%		
1974	1,316,100	869,637	66%		
1979	1,492,926	909,582	61%		
1981	1,151,695	653,643	57%		
1982	1,146,144	666,960	58%		
1983	1,136,794	590,848	52%		
1984					
1985	1,236,072	591,911	48%	1,055	754
1986	1,364,609	633,858	46%	1,039	734
1987	1,674,300	741,552	44%	1,051	694
1988	1,684,644	697,267	41%	1,078	705
1989	1,662,612	719,870	43%	1,076	720
1990	1,707,109	727,770	43%	1,071	715
1991	1,370,126	624,003	46%	1,113	760
1992	1,402,590	671,130	48%	1,105	757
1993	1,485,684	697,496	47%	1,159	773
1994	1,570,252	721,431	46%	1,205	822
1995	1,470,330	666,124	45%	1,192	839
1996	1,643,266	754,296	46%	1,249	852
1997	1,387,014	611,316	44%	1,208	840
1998	1,198,295	545,133	46%	1,221	824
1999	1,214,601	565,544	47%	1,176	812

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<sup>1</sup> Source: Japan Wood Products Information and Research Center, February 2000.

**TABLE A-13. Volume Under Contract**  
**Independent Sales**  
*(MBF, Sawlog + Utility)*

PURCHASER	SALE NAME	9/30/94	9/30/95	9/30/96	9/30/97	9/30/98	9/30/99
3-D Logging	Gander Salvage					36.2	40.2
Alaska Pacific Trading Co.	Granite	5,346.5	0	0	0	0	0
Alaska Fibre	Pipeline					15.2	0
	Twin Creek #1						15.0
Age, Frank	Zarembo Salvage	371.0	0	0	0	0	0
	Cedar			105.0	0	0	0
	Kindergarten Salvage			25.0	0	0	0
	One Ring				51.0	0	0
	Tatonka				67.0	0	0
	Heceta Sawfly Salvage				11,647.0	11,647.0	8,316.6
	Junction Timber				154.0	154.0	154.0
	Alder Creek Timber				2,183.0	2,183.0	2,183.0
	Loft Timber				297.0	297.0	297.0
	Ridge				629.0	629.0	629.0
Archipelago Log Homes	Lower Rio Beaver						86.0
Beaver Creek Logging Inc.	Ahtun Point Salvage					60.0	60.0
Belk Logging	Shikat Plus A-Frame	161.0	105.0	0	0	0	0
Big Salt Lumber	Upper Steel Salvage	72.1	0	0	0	0	0
	Rockie Dog II		11.0	0	0	0	0
	Rock Creek Slide II		71.0	71.0	0	0	0
Cedarville Timber & Logging	Snowpup	3,048.0	0	0	0	0	0
Chambers, Jack	Rynda Boomstick	4,546.0	1,937.3	0	0	0	0
	8400 Line Salvage	696.0	0	0	0	0	0
Cook, Mel	Peanut Sale			37.0	0	0	0
D & L Logging	Tumout Salvage	318.0	0	0	0	0	0
	Fogbank Salvage			180.0	0	0	0
	Freshwater Salvage		36.0	0	0	0	0
	Little Hamilton Salvage				331.0	331.0	331.0
D&L Woodworks	Tributary Salvage			113.0	0	0	0
Danger Point Timber	6245 Salvage					9.0	0
	Dakota						275.0
Ensely, Jim	Twin	65.0	0	0	0	0	0
Fox River Timber Corp.	Deep Bay South	2,904.1	0	0	0	0	0
Fuford, Ryan	Jubilee Cedar Salvage	15.0	0	0	0	0	0
Gateway Timber Co.	Pathway				15.2	0	0
Graves, Timothy	Kitkun Bay	4,212.8	0	0	0	0	0
H&L Salvage	E. Shaheen Cull Log	25.0	0	0	0	0	0
	Sleepy Cedar Too	20.0	5.0	0	0	0	0
	End of Road		30.0	5.0	0	0	0
	Son of Joe Cedar Salvage				5.2	0	0
	All Weather Log Salvage				32.0	0	0
	Cone Cedar Salvage					62.5	0
	Crackling Cliffs						23.5
Hummer Enterprise	Kogish Cedar Salvage					62.0	62.0
Icy Straits Lumber Co.	Wukuklook Salvage		72.2	0	0	0	0
Jones, Greg	Hanus Fuelwood						12.5
Jones, Jerry	Cutthroat Log Salvage			37.0	0	0	0
	Goose Creek Cedar Salvage			20.0	0	0	0
	Bubba Gump					48.0	0

PURCHASER	SALE NAME	9/30/94	9/30/95	9/30/96	9/30/97	9/30/98	9/30/99
	Southfork Salvage					.5	0
	Election Creek Cedar						24.0
Jones, Warren	Polk Switchback Salvage			29.0	0	0	0
Ketchikan Pulp Company	Longline						5,170.1
Kohnke, John	Froot Lake Salvage		9.0	6.0	0	0	0
L&L Logging	Two View	152.0	0	0	0	0	0
L.B. Logging	Middle Steel Salvage	101.0	0	0	0	0	0
	Split Pit Salvage	94.0	0	0	0	0	0
Landers, Keith	Goose Bay Cedar II		10.0	2.0	0	0	0
Larson Wood Products	Afterburn Cedar Salvage					49.0	0
Last Chance Enterprises	Goose Bay Cedar	25.0	0	0	0	0	0
	Rush Too/East Rush Peak	23.0	0	0	0	0	0
	Roadside Hazard Removal	10.9	0	0	0	0	0
	Wolf Pup Log Salvage			10.0	0	0	0
	Inbetween Log Salvage				129.0	0	0
	4 Point Log Salvage				133.0	0	0
	Relief Salvage					256.0	256.0
Little Bit Logging	Rush Fast						682.3
McCormick Enterprises	Old Tom Cedar					186.8	186.8
	Charred Cedar Salvage					49.5	24.5
McGraw Gravel Sales, Inc.	False Island Blowdown	390.0	0	0	0	0	0
Metlakatla Forest Products	Tuxecan North	1,989.9	0	0	0	0	0
	Salt Lake	2,843.5	0	0	0	0	0
	Midpoint	5,328.0	2,844.0	0	0	0	0
	Deep Bay North	14,860.0	13,661.0	13,661.0	4,143.9	0	0
	Timber Knob Pass Salvage			415.0	0	0	0
	Triangle Salvage			348.0	0	0	0
	Foggy				1,088.0	678.0	0
Meyer, David	Lava Log Salvage				9.7	8.5	0
Monro, Mike	Spruce Flats Salvage			33.0	33.0	33.0	0
Music, Jeff	Edge Salvage			104.0	0	0	0
New Age Mining/Excavation	Wolf Pup						1,192.8
New Traditions	Sarkar Stringer	1.75	0	0	0	0	0
	Buck Snort/Lab Bay	37.8	25.5	0	0	0	0
	X-mark Stringer	22.0	6.0	0	0	0	0
	Staney Stringer	26.0	8.5	0	0	0	0
	Salamander Log Salvage		8.0	0	0	0	0
	Ratz Stringer		8.0	0	0	0	0
	Sweetwater Log Salvage		6.0	0	0	0	0
	Exchange Stringer					23.0	0
Pacific Log & Lumber Ltd.	Todahl Backline						7,868.1
	Rowan Mountain						20,231.1
Porter Lumber	Upper Tux Salvage						140.5
	Lower Tux Salvage						138.1
Rayonier, Inc.	Saginaw		24,141.0	24,041.0	24,041.0	21,346.0	13,763.0
	ATC					8,544.0	8,544.0
	Rowan Settlement					11,439.0	11,439.0
Richter, Patrick	Misplaced Timber					813.0	813.0
	Kwati Timber					620.0	0
	Kosciusko Stringer	37.0	0	0	0	53.4	53.4
	Port Alice Cull Log	59.0	59.0	0	0	0	0
Sealaska Timber Corp.	De Rumba Salvage	585.0	0	0	0	0	0
	Twenty Mile/Indian Creek	11,865.0	91.0	0	0	0	0

PURCHASER	SALE NAME	9/30/94	9/30/95	9/30/96	9/30/97	9/30/98	9/30/99
Seley Family Ltd. aka Seley Corp.	East Thome Arm	193.5	0	0	0	0	0
	North Ridge Sale		924.0	0	0	0	0
	Red's Bridge		452.0	452.0	0	0	0
	Top of the World			199.0	0	0	0
	Lancaster Salvage				1,083.0	0	0
	Sentinal				3,590.0	0	0
	Rock King				2,056.0	0	0
	Cloudy					2787.9	0
	Picasso					607.9	237.6
	Abandon					278.0	278.0
	Peep Rock Timber					1,531.0	1,531.0
Silver Bay Logging	Appleton Resale		23,348.0	10,684.0	8,356.0	7,266.6	2,940.3
	Saook	29,833.0	29,833.0	29,833.0	23,348.0	23,348.0	23,348.0
	Hanus ATC			15,546.0	5,463.8	0	0
	South McKenzie			12,317.0	11,343.8	4,496.5	1,387.0
	King George				24,790.0	24,790.0	24,790.0
	Upper Carroll				30,072.0	30,072.0	30,072.0
	South Lindy					10,573.0	10,573.0
	Etolin					2,139.7	0
	South Lindy One						1,575.1
	Turn						1,759.7
	Nemo Loop						3,545.6
Sokol, Ray	Browns Cove Salvage				6.0	6.0	6.0
Southeast Alaska Wood Products	Foot						196.0
The Mill, Inc.	Sumner Salvage	3,105.0	1,748.0	0	0	0	0
	11-Mile Blowdown		47.0	0	0	0	0
	Wedge						644.0
Thorne Bay Lumber Enterprises	Tiny Salvage	16.0	0	0	0	0	0
	Fall/Six	35.0	31.0	0	0	0	0
	Bug Bite/RP Cull Log	36.0	6.2	0	0	0	0
	Rio Beaver	33.0	4.0	0	0	0	0
	North Thorne Stringer		14.0	0	0	0	0
	Stress Salvage		10.0	0	0	0	0
	Loop				50.0	0	0
	Little Hamilton Salvage Resale					331.0	0
	Buster Bay					233.0	0
Vandervort, Lawrence	800 Contour Salvage			58.0	15.4	0	0
Viking Lumber Company	Bohemia			33,710.0	30,619.0	23,959.0	17,686.0
	Dog Salmon Road Salvage			10.0	0	0	0
	Cape Pole			1,438.0	0	0	0
	Warren Channel			912.0	0	0	0
	Shamrock				24,280.0	15,246.0	15,246.0
	Mountain Beaver				468.0	0	0
	Bo					1,305.2	1,305.2
	21 Salvage					57.0	0
	Crane						8,405.6
	North Thome						2,304.0
	Naukati Blowdown						884.9
	Chusini Salvage						435.0
Wagner, Keith	Beaver Slide Stringer						4.4
Walker Wood Products	Bonanza Cull Log Salvage	119.0	119.0	0	0	0	0

PURCHASER	SALE NAME	9/30/94	9/30/95	9/30/96	9/30/97	9/30/98	9/30/99
Weber, Andy	Cutlog Cedar Salvage					63.7	0
West, Robert	49 Cedar Sale			20.0	0	0	0
	Old Franks Cedar			41.0	3.0	0	0
	Scene Salvage				1.0	0	0
Whitestone Logging	Humpback/Gallagher				21,319.0	21,121.1	16,364.9
Wilks Logging	East Polk Salvage	19.0	19.0	0	0	0	0
Wood Marine	Cavern Stringer	6.0	0	0	0	0	0
W.R. Tonsgard Logging	Eagle Salvage			71.0	0	0	0
	Two Bears Salvage			27.0	0	0	0
<b>Subtotal Independent Sales</b>		<b>93,646.8</b>	<b>100,362.7</b>	<b>144,711.0</b>	<b>252,814.0</b>	<b>229,226.2</b>	<b>232,675.5</b>
<b>Enjoined Sales</b>		<b>-29,833.0</b>	<b>-53,874.0</b>	<b>-0</b>	<b>-0</b>	<b>-10,573</b>	<b>-0</b>
<b>Available Unscaled Volume</b>		<b>63,813.8</b>	<b>46,488.7</b>	<b>177,711.0</b>	<b>252,814.0</b>	<b>229,215.6</b>	<b>232,675.5</b>

**TABLE A-14. Volume Under Contract**  
**Ketchikan Pulp Company**  
*(MBF, Sawlog + Utility)*

PURCHASER	SALE NAME	9/30/94	9/30/95	9/30/96	9/30/97	9/30/98	9/30/99
Ketchikan Pulp Company Contract	Offer 1 Lab/Whale Pass	51,343.0	51,343.0	52,802.0	0	0	0
	Offer 2 Coffman/Winter	7,000.0	0	0	0	0	0
	Offer 3 Thome Bay	10,000.0	0	0	0	0	0
	Offer 4 Polk Inlet	6,000.0	0	0	0	0	0
	Offer 9 Shelter Cove	10,000.0	900.0	550.0	0	0	0
	Offer 11 North Saddle	13,973.0	5,500.0	2,000.0	0	0	0
	Offer 12 Sumez Island	23,921.0	5,250.0	0	0	0	0
	Offer 13 Hume Island	5,808.0	5,000.0	541.0	0	0	0
	Offer 14 Fire Cove	25,993.0	4,000.0	0	0	0	0
	Offer 15 Upper Salt Creek	31,196.0	11,000.0	3,433.0	0	0	0
	Offer 16 Slide/Lava	17,402.0	5,500.0	3,366.0	0	0	0
	Offer 17 South Margaret		23,000.0	13,264.0	3,594.6	0	0
	Offer 18 Traitors River		25,000.0	320.0	0	0	0
	Offer 19 Campbell	12,540.0	4,000.0	0	0	0	0
	Offer 20 Crab Bay (1)	30,986.0	30,986.0	9,000.0	cancelled	-----	-----
	Offer 21 Inbetween	9,917.0	9,917.0	4,400.0	cancelled	-----	-----
	Offer 22 Trumpeter 6		500.0	2,037.0	0	0	0
	Offer 23 Chin Pt./Bushy Pt.		41,500.0	40,872.0	32,006.2	27,827.5	8,225.4
	Offer 24 Little Coal Bay		17,500.0	0	17,537.4	16,509.5	5,388.9
	Offer 25 East Polk		17,000.0	14,865.0	6,839.6	0	0
	Offer 26 Thome Bay II		12,000.0	14,328.0	6,537.0	4,246.5	0
	Offer 31 KSH			42,538.0	42,544.4	33,363.1	23,963.6
	Offer 32 North Thome/Ratz			22,420.0	21,539.2	15,334.6	0
	Offer 33 Big Dewey			65,465.0	38,812.9	10,570.1	2,267.5
	Offer 34 Nauk/Sarkar				22,870.0	21,363.8	9,332.0
	Offer 35 West Polk			27,976.0	25,671.8	9,336.5	0
	Offer 36 East 12 Mile				27,320.0	27,320.0	27,320.0
	Sink Blowdown		156.0	0	0	0	0
	Swing		2,119.0	0	0	0	0
<b>Subtotal KPC</b>		<b>256,079.0</b>	<b>272,171.0</b>	<b>320,176.0</b>	<b>245,273.1</b>	<b>166,051.5</b>	<b>79,903.5</b>
<b>Enjoined/Undercut Volume</b>		<b>-92,246.0</b>	<b>-92,246.0</b>	<b>-0</b>	<b>-0</b>	<b>-0</b>	<b>-0</b>
<b>Available Unscaled Volume</b>		<b>163,833.0</b>	<b>179,925.0</b>	<b>320,176.0</b>	<b>245,273.1</b>	<b>166,051.5</b>	<b>79,903.5</b>





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